

Human Genetics

Editorial Board

W. Lenz, Münster

A. G. Motulsky, Seattle

F. Vogel, Heidelberg

U. Wolf, Freiburg i. Br.

Advisory Board

G. Anders, Groningen

H. Baitsch, Ulm

A. G. Bearn, Rahaway

H. Bickel, Heidelberg

N. P. Bochkov, Moscow

D. Bootsma, Rotterdam

K. H. Degenhardt, Frankfurt/M.

B. Dutrillaux, Paris

G. Flatz, Hannover

U. Francke, New Haven

W. Fuhrmann, Giessen

H. Grüneberg, London

B. Hassenstein, Freiburg i. Br.

K. Hirschhorn, New York

P. S. Jacobs, Honolulu

W. Jaeger, Heidelberg

D. Klein, Genève

E. Krah, Heidelberg

W. Krone, Ulm

H. Lehmann, Cambridge

V. A. McKusick, Baltimore

M. Mikkelsen, Glostrup

O. J. Miller, New York

H. Nachtsheim, Boppard

E. Passarge, Essen

A. Prader, Zurich

H. Ritter, Tübingen

D. F. Roberts, New Castle/T.

C. Ropartz, Bois-Guillaume

W. Schmid, Zurich

U. W. Schnyder, Heidelberg

W. J. Schull, Houston

H. G. Schwarzacher, Wien

C. Stern, Berkeley

H. E. Sutton, Austin

Volume 49 · 1979



Springer International

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproduction, also in microform, is transferred to the publisher.

The use in this journal of registered or trade names, trademarks etc. without special acknowledgement does not imply that such names, as defined by the relevant protection laws, may be regarded as unprotected and thus free for general use.

Springer-Verlag Berlin · Heidelberg · New York

Printed in Germany by J. P. Peter, Gebr. Holstein, Rothenburg ob der Tauber

© by Springer-Verlag Berlin · Heidelberg 1979

Contents

Andrle, M., Erlach, A., Rett, A.: Partial Trisomy 4q in Two Unrelated Cases (Orig. Invest.)	179
Auf der Maur, P., Berlincourt-Böhni, K.: Human Lymphocyte Cell Cycle: Studies With the Use of BrUdR (Orig. Invest.)	209
Balestrazzi, P., s. Dallapiccola, B., et al.	1
Balestrazzi, P., Giovannelli, G., Landucci Rubini, L., Dallapiccola, B.: Partial Trisomy 16q Resulting From Maternal Translocation (Clinical Case Report)	229
Ball, D. W., s. Yunis, J. J., et al.	291
Bartsch-Sandhoff, M., Hieronimi, G.: Partial Duplication of 17p. A New Chromosomal Syndrome (Orig. Invest.)	123
Beck, W., s. Brachtel, R., et al.	337
Beek, B., Obe, G.: Sister Chromatid Exchanges in Human Leukocyte Chromosomes: Spontaneous and Induced Frequencies in Early- and Late-Proliferating Cells in vitro (Orig. Invest.)	51
Bender, K., Müller, C. R., Schmidt, A., Strohmeier, U., Wienker, T. F.: Linkage Studies on the Human Pi, Gm, GLO, and HLA Genes (Orig. Invest.)	159
Benitez, J., s. Ramos, C., et al.	7
Berlincourt-Böhni, K., s. Auf der Maur, P.	209
Brachtel, R., s. Walter, H., et al.	71
Brachtel, R., Walter, H., Hilling, M.: Associations Between Atopic Diseases and the Polymorphic Systems AB0, Kidd, Inv and Red Cell Acid Phosphatase (Orig. Invest.)	337
Bridges, B. A.: An Estimate of Genetic Risk From 8-Methoxysoralen Photochemotherapy (Orig. Invest.)	91
Buckton, K. E., s. Evans, H. J., et al.	11
Busi, B. R., Wells, L. J., Volkers, W. S., Ebeli-Struijk, A. C., Meera Khan, P.: Distribution of Glyoxalase I (GLO) Variants in Western Europe and the Indian Subcontinent (Orig. Invest.)	105
Buyse, C. H. C. M., Ypma, J. M. M., Gouw, W. L.: Complete Deficiency of Constitutive Heterochromatin on a Human Chromosome 9 (Orig. Invest.)	129
Cantú, J. M., Ibarra, B., Vaca, G., Ramirez, M. L., Sánchez-Corona, J.: Partial Mispairing and Crossing-Over Between β^0 and δ Genes as the Origin of the $\delta\beta^0$ Thalassemia Gene. A Single Mutational Event Hypothesis (Orig. Invest.)	191
Carothers, A. D., s. Evans, H. J., et al.	11
Casalone, R., s. Pasquali, F., et al.	277
Chautard-Freire-Maia, E. A.: Concerning the Linkage Relationships of the Gc and MNSS Loci (Hum. Genet. 43, 215—220, 1978) Disentangling Part of the Data Overlap (Letters to the Editors)	115
Couturier, J., Dutrillaux, B., Carber, P., Raoul, O., Croquette, M.-F., Fourlannie, J. C., Maillard, E.: Evidence for a Correlation Between Late Replication and Autosomal Gene Inactivation in a Familial Translocation t(X;21) (Orig. Invest.)	319
Croquette, M.-F., s. Couturier, J., et al.	319
Curatolo, P., s. Dallapiccola, B., et al.	1
Dallapiccola, B., Curatolo, P., Balestrazzi, P.: 'De Novo' Trisomy 16q11→pter (Orig. Invest.)	1
Dallapiccola, B., s. Balestrazzi, P., et al.	229
Dambrosio, F., s. Simoni, G., et al.	327
De Carli, L., s. Simoni, G., et al.	327
Della Valle, G., s. Simoni, G., et al.	327
Deroover, J., Fryns, J. P., Haegeman, J., Van den Berghe, H.: Paracentric Inversion in the Short Arm of Chromosome 1 (Orig. Invest.)	117
Dramušić, V., s. Laća, Z., et al.	237
Driesen, M., s. Verschaeve, L., et al.	147
Dutrillaux, B., s. Couturier, J., et al.	319

Ebeli-Struijk, A. C., s. Busi, B. R., et al.	105
Erlach, A., s. Andrle, M., et al.	179
Evans, H. J., Buckton, K. E., Spowart, G., Carothers, A. D.: Heteromorphic X Chromosomes in 46,XX Males: Evidence for the Involvement of X-Y Interchange (Orig. Invest.)	11
Fournlinnie, J. C., s. Couturier, J., et al.	319
Francesconi, D., s. Pasquali, F., et al.	277
Frézal, J., s. Hors-Cayla, M. C., et al.	33
Friberg, K., s. Gahrton, G., et al.	225
Fryns, J. P., s. Deroover, J., et al.	117
Fryns, J. P., Parloir, C., Van den Berghe, H.: Partial Trisomy 17q. Karyotype: 46,XY, der(21),t(17;21)(q22;p13) (Clinical Case Report)	361
Fryns, J. P., Van den Berghe, H.: Congenital Scalp Defects Associated With Postaxial Polydactyly (Orig. Invest.)	217
Gahrton, G., Friberg, K., Zech, L.: Translocation Between Chromosome 7 and Chromosome 22, t(7;22)(p22;q12), in a Patient With Chronic Myelocytic Leukemia (Clinical Case Report)	225
Ganesan, J., s. Tan, S. G., et al.	349
Garber, P., s. Couturier, J., et al.	319
Giovannelli, G., s. Balestrazzi, P., et al.	229
Goetz, P., s. Novotná, B., et al.	41
Gouw, W. L., s. Buys, C. H. C. M., et al.	129
ter Haar, B. G. A., s. Hustinx, T. W. J., et al.	199
Haegeman, J., s. Deroover, J., et al.	117
Haglund, U., Zech, L.: Simultaneous Staining of Sister Chromatid Exchanges and Q-Bands in Human Chromosomes After Treatment with Methyl Methane Sulphonate, Quinacrine Mustard, and Quinacrine (Orig. Invest.)	307
Hamada, T., s. Motegi, T., et al.	269
Hazout, S., Venuat, A. M., Valleron, A.-J., Rosenfeld, C.: Computer-Aided Analysis of Chromosomal Aberrations Occurring in an Abnormal Human Karyotype (Orig. Invest.)	133
Hens, L., s. Verschaeve, L., et al.	147
Heuertz, S., s. Hors-Cayla, et al.	33
Hieronimi, G., s. Bartsch-Sandhoff, M.	123
Hilling, M., s. Brachtel, R., et al.	337
Hilling, M., s. Walter, H., et al.	71
Hors-Cayla, M. C., Heuertz, S., Van Cong, N., Weil, D., Frézal, J.: Confirmation of the Assignment of the Gene for Arylsulfatase A to Chromosome 22 Using Somatic Cell Hybrids (Orig. Invest.)	33
Hustinx, T. W. J., Scheres, J. M. J. C., Weemaes, C. M. R., ter Haar, B. G. A., Janssen, A. H.: Karyotype Instability With Multiple 7/14 and 7/7 Rearrangements (Orig. Invest.)	199
Ibarra, B., s. Cantú, J. M., et al.	191
Imamura, T., s. Motegi, T., et al.	269
Ippoliti, G., s. Pasquali, F., et al.	277
Ivanović, M., s. Laća, Z., et al.	237
Janssen, A. H., s. Hustinx, T. W. J., et al.	199
Junien, C., Kaplan, J. C., Serville, F., Lenoir, G.: Triplex Gene Dosage Effect of TPI and G3PD in a Human Lymphoblastoid Cell Line With Partial Trisomy 12p13 and 18p (Short Comm.)	221
Kaplan, J. C., s. Junien, C., et al.	221
Kirsch-Volders, M., s. Verschaeve, L., et al.	147
Königshofer, H., s. Thalhammer, O., et al.	333
Kovacs, Gy., Mihai, C.: Tertiary Trisomy 14q-, Due to Paternal Balanced Translocation 46,XY,t(1;14)(q44;q22) (Orig. Invest.)	175
Krone, W., s. Schmid, M., et al.	283
Kusunoki, M., s. Motegi, T., et al.	269

Laća, Z., Ivanović M., Dramušić, V., Morić-Petrović, S.: Isodicentric X Chromosome in a Woman With Characteristics of Gonadal Dysgenesis (Clinical Case Report)	237
Landucci Rubini, L., s. Balestrazzi, P., et al.	229
Larizza, L., s. Simoni, G., et al.	327
Lau, K. Y., s. Tan, S. G., et al.	349
Lenoir, G., S. Junien, C., et al.	221
Lie-Injo, L. E., s. Tan, S. G., et al.	349
Lubec, G., s. Thalhammer, O., et al.	333
Maillard, E., s. Couturier, J., et al.	319
Meera Khan, P., s. Busi, B. R., et al.	105
Michaelsen, D., s. Zankl, H., et al.	185
Mihai, C., s. Kovacs, Gy.	175
Mohri, N., s. Motegi, T., et al.	269
Morić-Petrović, S., s. Laća, Z., et al.	237
Motegi, T., Kusunoki, M., Nishi, T., Hamada, T., Sato, N., Imamura, T., Mohri, N.: Short Rib-Polydactyl Syndrome, Majewski Type, in Two Siblings (Orig. Invest.)	269
Müller, C. R., s. Bender, K., et al.	159
Nestler, H., s. Schmid, M., et al.	283
Nishi, T., s. Motegi, T., et al.	269
Novotná, B., Goetz, P., Surkova, N. I.: Effects of Alkylating Agents on Lymphocytes From Controls and From Patients With Fanconi's Anemia. Studies of Sister Chromatid Exchanges, Chromosome Aberrations, and Kinetics of Cell Division (Orig. Invest.)	41
Obe, G., s. Beek, B.	51
Pals, G., Pronk, J. C.: Genetic Variation in Parotid Basic Proteins (Pb) in the Bozo (Mali, West Africa) (Short Comm.)	355
Parfenova, I. V., s. Podugolnikova, O. A., et al.	243
Parfenova, I. V., s. Podugolnikova, O. A., et al.	251
Parloir, C., s. Fryns, J. P., et al.	361
Pasquali, F., Francesconi, D., Casalone, R., Ippoliti, G.: Partial Trisomy 1 Due to 1/17 Translocation in Ph'-Positive Chronic Myelocytic Leukemia (Orig. Invest.)	277
Podugolnikova, O. A.: The Quantitative Analysis of Polymorphism on Human Chromosomes 1, 9, 16, and Y. III. Study of Relationships of C Segments' Lengths in Individual Karyotypes (Orig. Invest.)	261
Podugolnikova, O. A., Parfenova, I. V., Sushanlo, H. M., Prokofieva-Belgovskaja, A. A.: The Quantitative Analysis of Polymorphism on Human Chromosomes 1, 9, 16, and Y. I. Description of Individual Karyotypes (Orig. Invest.)	243
Podugolnikova, O. A., Sushanlo, H. M., Parfenova, I. V., Prokofieva-Belgovskaja, A. A.: The Quantitative Analysis of Polymorphism on Human Chromosomes 1, 9, 16, and Y. II. Comparison of the C Segments in Male and Female Individuals (Group Characteristics) (Orig. Invest.)	251
Polasa, H., s. Thadani, M. A.	97
Prokofieva-Belgovskaja, A. A., s. Podugolnikova, O. A., et al.	243
Prokofieva-Belgovskaja, A. A., s. Podugolnikova, O. A., et al.	251
Pronk, J. C., s. Pals, G.	355
Ramirez, M. L., s. Cantú, J. M., et al.	191
Ramos, C., Rivera, L., Benítez, J., Tejedor, E., Sanchez-Cascos, A.: Recurrence of Down Syndrome Associated With Microchromosome (Orig. Invest.)	7
Raoul, O., s. Couturier, J., et al.	319
Rett, A., s. Andrlé, M., et al.	179
v. Reutern, G. M., s. Wienker, T. F., et al.	83
Rivera, L., s. Ramos, C., et al.	7
Ropers, H. H., s. Wienker, T. F., et al.	83
Rosenfeld, C., s. Hazout, S., et al.	133
Sacchi, N., s. Simoni, G., et al.	327
Sanchez-Cascos, A., s. Ramos, C., et al.	7
Sánchez-Corona, J., s. Cantú, J. M., et al.	191

Sato, N., s. Motegi, T., et al.	269
Sawyer, J. R., s. Yunis, J. J., et al.	291
Scheres, J. M. J. C., s. Hustinx, T. W. J., et al.	199
Schinzel, A.: Possible Trisomy 1q25→1q32 in a Malformed Girl with a de novo Insertion in 1q (Orig. Invest.)	167
Schmid, M., Wolf, J., Nestler, H., Krone, W.: Partial Trisomy for the Long Arm of Chromosome 7 Due to Familial Balanced Translocation (Orig. Invest.)	283
Schmidt, A., s. Bender, K., et al.	159
Serville, F., s. Junien, C., et al.	221
Simoni, G., Larizza, L., Sacchi, N., Della Valle, G., Dambrosio, F., De Carli, L.: Chromosome Lesions in Amniotic Fluid Cell Cultures (Orig. Invest.)	327
Spowart, G., s. Evans, H. J., et al.	11
Stetka, D. G., Jr.: Further Analysis of the Replication Bypass Model for Sister Chromatid Exchange (Orig. Invest.)	63
Strohmaier, U., s. Bender, K., et al.	159
Surkova, N. I., s. Novotná, B., et al.	41
Susanne, C., s. Verschaeve, L., et al.	147
Sushanlo, H. M., s. Podugolnikova, O. A., et al.	243
Sushanlo, H. M., s. Podugolnikova, O. A., et al.	251
Tan, S. G., Teng, Y.-S., Ganesan, J., Lau, K. Y., Lie-Injo, L. E.: Biochemical Genetic Markers in the Kadazans of Sabah, Malaysia (Orig. Invest.)	349
Tejedor, E., s. Ramos, C., et al.	7
Teng, Y.-S., s. Tan, S. G., et al.	349
Thadani, M. A., Polasa, H.: Cytogenetic Effects of Replicating and Nonreplicating Strains of Influenza Virus on Male Germ Cells of Mice (Orig. Invest.)	97
Thalhammer, O., Lubec, G., Königshofer, H.: Intracellular Phenylaline and Tyrosine Concentrations in 19 Heterozygotes for Phenylketonuria (PKU) and 26 Normals. Do the Higher Values in Heterozygotes Explain their Lowered Intellectual Level?	333
Vaca, G., s. Cantú, J. M., et al.	191
Valleron, A.-J., s. Hazout, S., et al.	133
Van Cong, N., s. Hors-Cayla, M. C., et al.	33
Van den Berghe, H., s. Deroover, J., et al.	117
Van den Berghe, H., s. Fryns, J. P.	217
Van den Berghe, H., s. Fryns, J. P., et al.	361
Venuat, A. M., Hazout, S., et al.	133
Verschaeve, L., Driesen, M., Kirsch-Volders, M., Hens, L., Susanne, C.: Chromosome Distribution Studies After Inorganic Lead Exposure (Orig. Invest.)	147
Volkers, W. S., s. Busi, B. R., et al.	105
Walter, H., s. Brachtel, R., et al.	337
Walter, H., Brachtel, R., Hilling, M.: On the Incidence of Blood Group 0 and Gm(-1) Phenotypes in Patients With Malignant Melanoma (Orig. Invest.)	71
Weemaes, C. M. R., s. Hustinx, T. W. J., et al.	199
Weil, D., s. Hors-Cayla, M. C., et al.	33
Wells, L. J., s. Busi, B. R., et al.	105
Wienker, T. F., s. Bender, K., et al.	159
Wienker, T. F., v. Reutern, G. M., Ropers, H. H.: Progressive Myoclonus Epilepsy. A Variant With Probable X-Linked Inheritance (Orig. Invest.)	83
Wolf, J., s. Schmid, M., et al.	283
Ypma, J. M. M., s. Buys, C. H. C. M., et al.	129
Yunis, J. J., Ball, D. W., Sawyer, J. R.: G-Banding Patterns of High-Resolution Human Chromosomes 6-22, X and Y (Orig. Invest.)	291
Zang, K. D., s. Zankl, H., et al.	185
Zankl, H., Michaelsen, D., Zang, K. D.: Quantitative Studies on the Arrangement of Human Metaphase Chromosomes. VI. The Association Pattern of Acrocentric Chromosomes in Patients With Trisomy 13 (Orig. Invest.)	185
Zech, L., s. Gahrton, G., et al.	225
Zech, L., s. Haglund, U.	307